

**Amendments to the Specification**

Please replace the Heading at page 102, first line with:

**Step 2: 4H-5-thia-1,6a-diazapentalen-2-carboxylic acid ethyl ester**

Please replace the Heading at page 111, line 32-33 with:

**Preparation of 6-(6,7-dihydro-4H-thieno[3,2-c]thiopyran-2-ylmethylene)-7-oxo-4-thia-1-aza-bicyclo[3.2.0]hept-2-ene-2-carboxylic acid**

Please replace the Heading at page 125, line 2-3 with:

**Preparation of (5R,6Z)-6-[(7-methylimidazo[2,1-b][1,3]benzothiazol-2-ylmethylene)]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid**

Please replace the Heading on page 171, line 25-26 with:

**Preparation of (5R)(6Z)-6-(6,7-5H-dihydropyrazolo[5,1-b]oxazin-2-ylmethylene)-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, sodium salt**

Please replace the Heading at page 173, line 30-31 with:

**Step 5: (5R)(6Z)-6-(6,7-5H-Dihydropyrazolo[5,1-b]oxazin-2-ylmethylene)-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, sodium salt**

Please replace the Heading at page 179, line 25-26 with:

**Preparation of (5R),(6Z)-6-(imidazo[2,1-b]benzothiazol-7-ylmethylene)-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid**

Please replace the Heading at page 185, line 1-2, with:

**Preparation of (5R),(6Z)-7-oxo-6-(5,6,7,8-tetrahydroimidazo[2,1-b][1,3]benzothiazol-2-ylmethylene)-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid**

Please replace the Heading at page 186, line 25-26, with:

**Preparation of (5R),(6Z)-6-[(9-methyl-9H-imidazol-2-yl)methylene]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid**

Please replace the Heading at page 213, line 5-6 with:

**Preparation of (5R,6Z)-7-oxo-6-(5,6,7,8-tetrahydropyrazolo[5,1-b][1,3]benzoxazol-2-ylmethylene)-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, sodium salt**

Please replace the Heading at page 215, line 7, with:

**Step 6: Preparation of (5R,6Z)-7-oxo-6-(5,6,7,8-tetrahydropyrazolo[5,1-b][1,3]benzoxazol-2-ylmethylene)-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, sodium salt**

Please replace the Heading at page 215, lines 27-29 with:

**Preparation of (5R,6Z)-6-([6-(ethoxycarbonyl)-5,6,7,8-tetrahydropyrazolo[5',1':2,3][1,3]oxazolo[5,4-c]pyridin-2-yl)methylene)-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, sodium salt**